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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/800,847	03/16/2004	Junji Suetsugu	1248-0706PUS1	1286	
	7590 03/20/2001 ART KOLASCH & BIJ	EXAMINER			
PO BOX 747		AFSHAR, KAMRAN			
FALLS CHUR	CH, VA 22040-0747	ART UNIT	PAPER NUMBER		
		2617			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE		
3 MO	NTHS	03/20/2007	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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mailroom@bskb.com

			Application No.	Applicant(s)				
		10/800,847	SUETSUGU, JUNJI					
Office Action Summary			Examiner / Q	Art Unit				
	•		Kamran Afshar, 571-272-7796	2617				
Period fo	The MAILING DATE of this communic or Reply	cation app	ears on the cover sheet with the	correspondence ad	idress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAN ENGINEER IS LONGER, FROM THE MAN ENGINEER IS LONGER, FROM THE MAN ENGINEER IS LONGER IN THE PROVINCE OF THE PROVIN	ALING DA f 37 CFR 1.13 inication utory period w ill, by statute,	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timed apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed in the mailing date of this c ED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	l on <i>03/16</i>	3/2004.					
2a)□								
3)	-							
,_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4) 🖂	Claim(s) 1-11 is/are pending in the ap	oplication.	•					
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)🖂	☑ Claim(s) <u>1-11</u> is/are rejected.							
7)								
8)	Claim(s) are subject to restrict	ion and/or	election requirement.	·				
Applicat	ion Papers			. 4				
9)	The specification is objected to by the	Examiner	•		•			
10)⊠ The drawing(s) filed on <u>16 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119		·					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
1.⊠ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of	f the prior	ity documents have been receiv	ed in this National	Stage			
	application from the Internation	ıal Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) A) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Notice of Drainsperson's Patent Drawing Review (PTO-946) 5) Notice of Informal Patent Application								
	Paper No(s)/Mail Date <u>03/16/04 & 05/16/06</u> . 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 8-11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. In accordance with the claimed language, the claimed invention is directed to description or expression of the programs, which are not physical "things". They are neither computer components nor statutory processes. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionally to be realized. In contrast, a claimed computer readable medium encoded with a computer program, i.e. instruction, is a computer element, which defines structural and functional interrelationships between computer program and the rest of computer, which permits the computer program's functionality to be realized, and is thus statutory. See *Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994)

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Regarding claims 1, 4, 7-11, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).
 - Claims 2-3, 5-6 are rejected as they are directly and or indirectly depended on rejected claim(s).
- 5. Claim 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "storing detection information ", does not reasonably provide enablement for generating detection information

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6. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. It is seen how the storage unit storing detection information, but it is not seen how generating detection information.

7. The claims are generally narrative and indefinite, failing to conform with current U.S. practice.

They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claims 4, 9, recites word(s) "communication means for exchanging the detection information with an outside", "from an outside", "to the outside".

Appropriate correction is required.

Drawings

8. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "to reduce a total number of nodes operating in the master mode", "master selecting means"," construction means"," first searching means "," second first searching means"," repeating means"," determining means", must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will

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be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

- 9. Claims 1-11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph and rejection under 35 U.S.C. 101, set forth in this Office action.
- 10. The following is a statement of reasons for the indication of allowable subject matter: 1-11.

With respect to claims 1, 10, Admitted Prior Art (APA) is the closest prior art to the application invention, which discloses a network reconfiguration method for reconfiguring a network including a plurality of sub-networks each including a node operating in a master mode and at least one node operating in a slave mode and being linked with the node operating in the master mode (See e.g. Page 13, Line 2 – Page 14, Line 17, Figs. 1a-1c).

Tanada discloses a positional relationship between a master terminal and a slave terminal and the positional relationship of the slave terminal with the master terminal and with other slave terminals are measured, and a slave terminal subject to switching to master terminal is selected using the positional relationship. A network is then reconstructed with the slave terminal subject to switching selected in this manner as the new master terminal (See e.g. Abstract, Co. 3, Line 64 – Co. 4, Line 11, Figs. 1-19).

However, the prior art of record fails to disclose singly or in combination or render obvious that the network reconfiguration method comprising the steps of: (i) causing each node to detect a linkable node: (ii) generating detection information including a result of detection in the step (i); (iii) with reference to the detection information generated in the step (ii), selecting a node becoming the node operating in the master mode, reducing a total number of nodes operating in the master mode; and (iv) constructing a sub-network including the node selected in the step (iii).

With respect to claim 4, the prior art of record fails to disclose singly or in combination or render obvious that comprising: detection means for detecting a linkable node; storage means for storing detection information which includes a result of detection of the node, which is obtained by the detection means, and results of detections of other nodes constituting a network including sub-networks including

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said sub-network; communication means for exchanging the detection information; master selecting means for selecting, with reference to the detection information, a node becoming the node operating in the master mode, reducing a total number of nodes on the network operating in the master mode; and construction means for constructing a sub-network by selecting a mode of the node and selecting a target node to be linked with, with reference to a selection by the master selecting means.

With respect to claim 7, the prior art of record fails to disclose singly or in combination or render obvious that the link change method comprising the steps of: (i) detecting a linkable node; (ii) receiving, from an outside, detection information including results of detections of other nodes constituting a network including sub-networks including said sub-network; (iii) updating the received detection information with reference to a result of detection of the node, which is obtained in the step (i); (iv) to the outside, sending the detection information updated in the step (iii); (v) with reference to the detection information updated in the step (iii), selecting a node becoming the node operating in the master mode, reducing a total number of nodes operating in the master mode; (vi) based on a selection in the step (v), selecting a mode of the node and selecting a target node to be linked with; and (vii) if the target node selected in the step (vi) is different from a current target node, switching the target node.

With respect to claim 8, the prior art of record fails to disclose singly or in combination or render obvious that the network reconfiguration method including the steps of: (i) causing each node to detect a linkable node: (ii) generating detection information including a result of detection in the step (i); (iii) with reference to the detection information generated in the step (ii), selecting a node becoming the node operating in the master mode, reducing a total number of nodes operating in the master mode; and (iv) constructing a sub-network including the node selected in the step (iii).

With respect to claims 9, 11, the prior art of record fails to disclose singly or in combination or render obvious that the method including the steps of: (i) detecting a linkable node; (ii) receiving, detection information including results of detections of other nodes constituting a network including subnetworks including said sub-network; (iii) updating the received detection information with reference to a result of detection of the node, which is obtained in the step (i); (iv) sending the detection information updated in the step (iii); (v) with reference to the detection information updated in the step (iii), selecting a

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node becoming the node operating in the master mode, reducing a total number of nodes operating in the

master mode; (vi) based on a selection in the step (v), selecting a mode of the node and selecting a

target node to be linked with; and (vii) if the target node selected in the step (vi) is different from a current

target node, switching the target node.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Johnsson (U.S. Pub. No.: 2002/0044549 A1).

b) Choi (U.S. 6,859,656 B2).

c) Joon-Bo (U.S. Pub. No.: 2002/0055978 A1).

d) Choi (U.S. 6,879,570 B1).

Any inquiry concerning this communication or earlier communication from the examiner should be

directed to Kamran Afshar whose telephone number is (571) 272-7796. The examiner can be reached on

Monday-Friday.

If attempts to reach the examiner by the telephone are unsuccessful, the examiner's supervisor,

Eng. George can be reached @ (571) 272-3984. The fax number for the organization where this

application or proceeding is assigned is 571-273-8300 for all communications.

Information regarding the status of an application may be obtained from the Patent Application

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at 866-217-9197 (toll-free).

Karbran Afchar

GEORGE ENG

PATENT EXAMINER